

Inches	THE R	Inches		Inches	MAA
.005	0.13	. 072	1,83	.47	11.94
.020	0.51	. 090	2.29	.51	12.95
.030	0.76	. 10	2.54	.535	13,59
.04	1.02	.175	4.45	. 575	14.61
. 062	1.57	.26	6, 60	.740	18.80
.07	1.78	.428	10.87	1.160	29, 46

## NOTES:

- 1. Metric equivalents are given for general information only.
- 2. Dimensions are in inches.
- Unless otherwise specified, tolerance is ±.020 (0.51 mm) on two place decimals, and ±.005 (0.13 mm) on three place decimals.
- Configuration of switch case is optional provided maximum dimensions specified are not exceeded.
- 5. For hardware detail specifications, see supplement of MIL-S-83731.

## **DETAIL REQUIREMENTS:**

TIMTERMATIONAL

LOCKING COMBINATIONS

LOCKED IN THREE POSITIONS	LOCKED IN CENTE AND DOWN POSITI (MEYING SIDE)		OUT OF POSITION	LOCKED : CENTER POS	ITION	LOCKED IN UP POSITION OSITE KEVING)	LOCKED DOWN POS (KEYING 3	ITION	LOCKED OUT	POSITION
LOCKES OUT OF CENTER AND UP POSITION LOPPOSITE KEYIMS )	LOCKED IN CENTS AND UP POSITION (OPPOSITE KEYN)	DOWN	POUT OF POSITION HE SIDE!	LOCKED OUT O	ITION	DOCKED OUT OF UP POSITION POSITE KEYING)	LOCKED OUT O	DSITION	FIGURES A DO NOT REF DETAILS OF STRUCTION SCHEMATIC ILLUSTRATE ING CONFIGURE B MOM POS	PRESENT F CON - THEY ALLY LOCK- MATIONS
CANCELE PART NU	ED MS   SUBS	TITUTE  / NUMBERI	AVAILABLI COMBINA	E LOCKING ATIONS	CIRCUI KEYING SIDE 1-2	CENTER P		OPP KEYIN	IN   OSITE   IG SIDE   -3	
MS2772	-22	/20-21-1  -22-1		,G	ON OFF	OF NO		<del> </del>	ON I	•
	-23   -26   -27	-23-11 -26-11 -27-11	D,F F,L	,G	ON MOM-ON MOM-ON	I NO	NE	I M	ON   ON   OM-ON	
	-31 [	-31-1	E,F,K,	L,M,N T	MOM-ON	OF		<del>i                                    </del>	ON	

The canceled part numbers are no longer procurable; the substitute part numbers have a lower dielectric withstanding voltage at reduced barometric pressure (see 2 below).

G denotes changes

Pus	PROCUREMENT SPECIFICATION SUPERS		WPERSE	DES:	SHEET OF	2
ě	Army - ER			SWITCH, TOGGLE, MINIATURE, SINGLE POLE, TOGGLE SEAL, LEVER LOCK	MS2772	20
ade	Air Force 85	INTEREST		CHITCH TOCOLE MINIATURE ON OLE	MILITARY ST	ANDARD

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(B) 5 AUG 1971 (C) 22 MAY 1972 (D) 14 MAY 1974

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MAY 1968

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NOTES:

- 1. All switches on this standard are designed so that the movement of the switch mechanism is opposite to that of the toggle lever.
- Test voltage for dielectric withstanding voltage at reduced barometric pressure, shall be 400 Y rms minimum.
- Electrical endurance shall be performed for 30,000 cycles.
- Mechanical endurance shall be performed 50,000 cycles at -65°C and then 50,000 cycles at 85°C.
- Intermediate current shall be performed for 30,000 cycles.
- Terminals shall be molded into the switch case and shall accommodate no. 18 awg wire.
- Locking arrangement: Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released. The force required to release the locking mechanism shall be 3 to 5 pounds.
- The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 lb. inch applied in both directions immediately following the humidity test.
- maximum weight shall be .045 lb.
- Electrical ratings for 28 volts dc and 115 volts ac at 400 Hz. Lamp load = 1 ampere, resistive load = 5 amperes, inductive load = 2 amperes.
- Part number example: MS27720-21-1A (locking combination 'A'). 12.
- (G) 13. In the event of a conflict between the text of this standard and the reference cited herein, the text of this standard shall take precedence.
- (G) 14. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.

Air Force 85 Navy - AS Army - ER

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new engineering shall be made fro

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SWITCH, TOGGLE, MINIATURE, SINGLE POLE, TOGGLE SEAL, LEVER LOCK

MILITARY STANDARD

MS27720

PROCUREMENT SPECIFICATION SUPERSEDES

INTERNATIONAL INTEREST

SHEET OF

MIL-S-83731